

I. Amendments to the Claims:

This listing of claims replaces without prejudice all prior versions, and listings, of claims in the application:

Listing of Claims:

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Claim 1. (Currently Amended) An apparatus for use with a body to be tested for faults using a luminescent material, said apparatus comprising:

A1 at least one LED capable of emitting radiation to excite said luminescent material; and

a power supply connected to said at least one LED to provide said at least one LED with electricity, and wherein a substantial portion of the wavelength of radiation emitted from each LED falls within a range from 395 to 415 nanometers, and wherein the beam angle of radiation emitted from each LED is less than or equal to 30 degrees.

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Claim 2 and 3 (Cancelled)

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A2 Claim 4 (Currently Amended) The apparatus of claim 1, further comprising a housing having an open end, wherein said at least one LED is attached to a substrate and is

A2  
end  
mounted within said housing adjacent the open end, and said at least one LED is oriented to emit radiation through the open end.

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Claim 5 (Cancelled)

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Claim 6 (Currently Amended) The apparatus of claim [5] 4, wherein said [array having between] at least one LED is from 12 to 40 LEDs in a cluster, and said power supply is connected within the housing.

A3  
Claim 7 (Previously Presented) The apparatus of claim 6, wherein said power supply supplies electricity to said LEDs in an amount greater than the rated voltage of said LEDs.

Claim 8 (Previously Presented) The apparatus of claim 6, further comprising a lens mounted to said open end for focusing said radiation emitted by said LEDs.

Claim 9 (Currently Amended) The apparatus of claim 8, wherein said lens ~~is~~ comprises a Fresnel lens.

Claim 10 (Previously Presented) The apparatus of

claim 8, wherein said lens provides a usable beam of radiation for a distance 5 to 10 feet from said lens.

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end  
Claim 11 (Previously Presented) The apparatus of claim 8, wherein said lens is removably mounted to said open end.

Claim 12 (Currently Amended) The apparatus of claim 6, wherein said power supply ~~is~~ comprises a battery.

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Claims 13 and 14 (Cancelled)

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Claim 15 (Currently Amended) A method for detecting a fault in a body, comprising the steps of:

applying a luminescent material to the body in a manner to concentrate the luminescent material in a pattern indicative of the location of a fault in the body;

activating an LED to emit ultraviolet radiation, a substantial portion of the wavelength of radiation emitted from the LED falling within a range from 395 to 415 nanometers, and wherein the beam angle of radiation emitted from the LED is less than or equal to 30 degrees;

shining the radiation transmitted from the LED

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encl  
onto the body to excite the luminescent material; and  
detecting a fault by the fluorescence of the  
luminescent material indicative of the location of the fault in  
the body.

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Claim 16 (Cancelled)

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Claim 17 (Previously Presented) The method of  
claim 15, further comprising the step of focusing said  
radiation emitted from said array using a lens.

AS  
Claim 18 (Currently Amended) The method of claim  
17, wherein said lens ~~is~~ comprises a Fresnel lens.

Claim 19 (Currently Amended) A method of using an  
LED for detecting a fault in a body, comprising:

applying a luminescent material to the body in a  
manner to concentrate the luminescent material in a pattern  
indicative of the location of a fault in the body;

activating said LED to emit radiation, a  
substantial portion of the wavelength of radiation emitted from  
the LED falling within a range from 395 to 415 nanometers, and  
wherein the beam angle of radiation emitted from the LED is

less than or equal to 30 degrees;

AS  
end  
shining at least a portion of the radiation  
emitted from said LED onto the body to excite the luminescent  
material; and

detecting a fault by the fluorescence of the  
luminescent material indicative of the location of the fault in  
the body.

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Claims 20-22 (Cancelled)

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AL  
Claim 23 (Currently Amended) A kit comprising:  
a lamp including at least one LED housed within  
said lamp, said LED being capable of generating ultraviolet  
radiation, a substantial portion of the wavelength of radiation  
generated from the LED falling within a range from 395 to 415  
nanometers, and wherein the beam angle of radiation generated  
from the LED is less than or equal to 30 degrees; and

a luminescent material capable of absorbing at  
least a portion of said radiation, converting said radiation to  
energy, and emitting said radiation at a visible wavelength.

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Claim 24 (Cancelled)